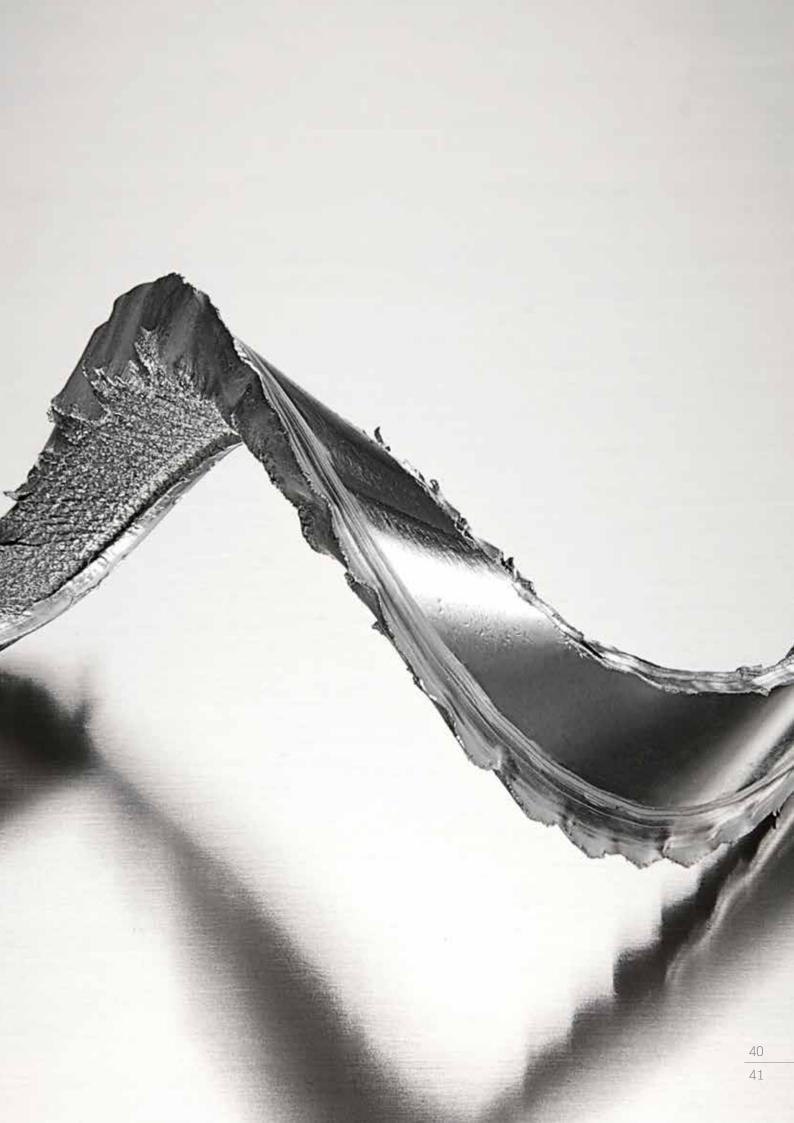
## 03 Technical data . C 22





## 03.1 Technical data . C 22

Working area	Traverse	X axis		450 mm	
	Traverse	Y axis	600 mm		
	Traverse	Z axis	330 mm		
	Rapid linear traverse (dynamic)	X-Y-Z	30 (50) m/min.		
	Linear acceleration (dynamic)	X-Y-Z	8 (15) m/s²		
	Linear feed force	X-Y-Z	4500 N		
	Max. vertical table clearance			470 mm	
	Max. workpiece diameter			Ø 450 mm	
	Max. workpiece height			370 mm	
Main spindle drive	Speed Main power/Torque	15000 rpm 20% c.d.f.	31	SK 40 kW / 98 Nm	
	Speed Main power/Torque	18000 rpm 20% c.d.f.	HSK A 63 / HSK A 50 31 kW / 98 Nm		
	Speed Main power/Torque	30000 rpm 20% c.d.f.	HSK A 50 37 kW / 32 Nm		
	Speed Main power/Torque	42000 rpm 20% c.d.f.	35 k\	HSK E 40 W / 17.5 Nm	
Control unit	Heidenhain		iTNC 530 / TNC 640		
	Siemens		Sinumerik 840 D sl		
Tool changer (pick-up)	Interface	SK 40 / ● HSK A 63 ○	HSK A 50 ○	HSK E 40	
	Magazine pockets	55	65	6	
	Chip-to-chip time*	approx. 4.5 s	approx. 4.5 s	approx. 4.5	
	*(chip-to-chip times for 3-axis units were calculated in keeping with German standard VDI 2852, page 1)				
	Max. tool length	250 mm	250 mm	250 mr	
	Max. tool diameter with empty adjacent pockets	Ø 80 mm Ø 125 mm	Ø 65 mm Ø 125 mm	Ø 65 mr Ø 125 mr	
	Max. magazine load	220 kg	195 kg	163 k	

Extension of tool storage capacity	Additional magazine ZM 43 Additional 43 pockets				0
	Additional magazine ZM 87	ZM 87 Additional 87 pocket			0
	Additional magazine single ZM 192	Additional magazine single ZM 192 Additional 192 pockets			
	Additional magazine double ZM 462		Additional 462 pockets		
	Interface	SK 40 / HSK A 63	HSK A 50	HSK E 40	
	Max. tool length	250 mm	250 mm	250 mm	
	Max. tool diameter with empty adjacent pockets	Ø 80 mm Ø 125 mm	Ø 65 mm Ø 125 mm	Ø 65 mm Ø 125 mm	
	Max. tool weight	8 kg	6 kg	2.5 kg	
Table variants*	NC swivelling rotary table	Ø	320	Ø 320	
	Table plate with clamping surface	Ø 320	mm	Ø 320 mm	
	Swivelling range	+/- ]	135°	+/- 135°	
	C-axis drive mode	to	rque	worm	
	Swivelling axis A speed One-sided drive Tandem drive		rpm rpm	25 rpm -	
	Rotary axis C speed		rpm	40 rpm	
	Max. table load		 O kg	300 kg	
	T grooves	4 units / 14 star-sha	1 H7	4 units / 14 H7 star-shaped	
	Table plate with clamping surface		- Ø .	450 x 360 mm	
	System table (can be extended with table plate)	Ø 320	Ø 320 mm		
	Zero-point system / pallet clamping sys	tem			
	Installation clamping device		-	SK 50	
	Installation clamping device		-	HSK 100	
	Rigid clamping table				
	Clamping surface			600 x 630 mm	
	Max. table load			750 kg	
	T grooves		10	0 units / 14 H7 parallel	

\*All tables available on demand

Position measuring system, direct	Resolution		0.0001 mm	•
Positional tolerance	Tp in X-Y-Z axes according to VDI/DGQ 3441		0.008 mm	
	(calculated at a constant ambient temperature of 2 Our products are subject to the German Export Lav authorization since the attainable precision may be	w and require		
Chip slide	Space-saving mounting on the left or right Capacity		210	•
Chip conveyor	Scraper belt or hinge conveyor			$\circ$
	Chip conveyor, left or right (short version) Capacity		280	
	Chip conveyor to the rear (long version) Capacity		280	
	Chip conveyor ejection height		1100 mm	
	Chip cart		450	
Internal cooling lubricant	Capacity of standard tank	100 l	100	0
supply with Paper band filter	Capacity of cooling lubricant tank	570	750	
	Pressure (manually adjustable up to)	max. 40 bar / 20 l/min	max. 80 bar / 29 I/min	
	Mains connection (ICS)	-	400 V / 50 Hz	
	Power consumption (ICS)	-	12 kVA	
Hydraulics	Operating pressure		120 bar	•
Central lubrication	Minimum grease lubrication quantity			•
Connected loads (machine)	Mains connection		400 V / 50 Hz	
	Power consumption		46 kVA	
	Compressed air		6 bar	
Weight	(standard version without optional extras, workpieces and cooling lubricant)		Approx. 8.7 t	

